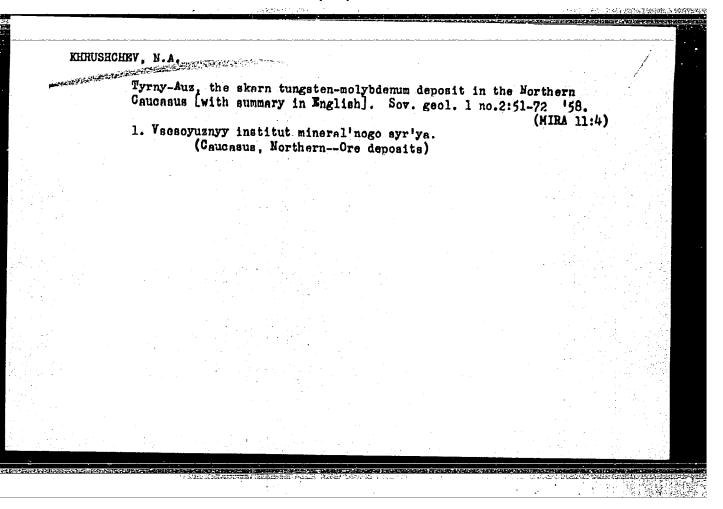
To the drill master office No.3 of the Drilling To	
Al'met'yevsk Petroleum Industry, Hero of Socialis: Comrade M.P.Grin' and all the workers of his brigs to no.2:2 F '61. (Al'met'yevsk region—Oil well drilling)	L Y 1

FOZHARITSKIY, K.L.; KHIUSHCHEV, N.A., red.

[Determining the content of valuable components in the margins of an ore deposit] Opredelenie bortovogo soderzhaniia tsennykh komponentov v rude mestorozhdeniia.

Moskva, M-vo geologii i okhrany nedr SSSR, 1962. 30 p.

(MIRA 17:8)



KHRUSHCHEV, N.G.

Tissular reactions of the skin to deafferentation, Isv.AN SSSR.Ser.biol. no.5:780-787 8-0 '59. (MIRA 13:2)

1. The Second State Medical Institute, Moscow. (SKIN--INNERVATION)

KHRUSHCHOV, N. G. Cand Med Sci -- (diss) "On the reactions of tissues of deafferented skin." Mos, 1959. 16 pp (2nd Mos State Med Inst im N. I. Pirogov), 250 copies (KL, 50-59, 129)

-28 -

KHRUSHCHEV, N. G.; YERMOLAYEVA, L. P.; ZBARSKIY, I. B.

"On the Existence and Intranuclear Localization of a DNA fraction differing by its Base Composition from Total Cellular DNA."

report to be presented at the 6th Intl Biochemistry Cong, New York City, 26 Jul- 1 Aug 1964.

KHRUSHCHEV, N.S.; PODGORNYY, N.V.; ZASYAD'KO, A.F.; RUDAKOV, A.P.; KAZANETS, I.P.; SHILIN, A.A.; MEL'NIKOV, N.V.; BURMISTROV, A.A.; SHEVCHENKO, V.V.; MAYAKOV, L.I.; ROZENKO, P.A.; KUZ'MICH, A.S.; ZADEMIDKO, A.N.; RRATCHENKO, B.F.; STRUYEV, A.I.; KRASNIKOVSKIY, G.V.; BOYKO, A.A.; KAGAN, F.Ya.; USKOV, A.A.; VLADYCHENKO, I.M.; TOPCHIEV, A.V.; DEGTYAREV, V.I.; KHUDOSOVTSEV, N.M.; GRAFOV, L.Ya.; IVANOV, V.A.; KRATENKO, I.M.; GOLUB, A.D.; IVONIN, I.P.; SAVCHENKO, A.A.; ROZECHENKO, V.A.); CHERNECOV, A.S.; MARRELOV, M.N.; LALAYANTS, A.M.; POTAPOV, A.I.; POLUEKTOV, I.A.; SKLYAR, D.S.; PONOMARENKO, N.F.; POTAPOV, A.I.; POLYAKOV, N.V.; SUBBOTIN, A.A.; POLSTYANOY, G.N.; TRUKHIN, P.M.; TKACHENKO, A.G.; OSTROVEKIY, S.B.; NYRTSEV, M.P.; DYADYK, I.I.; SHPAN'KO, T.P.; RUBCHENKO, V.P.

Kondrat Ivanovich Pochenkov; obituary. Sov. shakht. 11 no.9:
(Pochenkov, Kondrat Ivanovich, 1905-1962)

S/089/62/012/006/017/019 B102/B104

AUTHORS:

Khrushchev, N. S., Margulis, U. Ya., Stepanov, S. M.

TITLE:

A method of increasing the utilization factor of radiation

in gamma-irradiation units

PERIODICAL:

Atomnaya energiya, v. 12, no. 6, 1962, 536-537

TEXT: Methods of raising the utilization factor of gamma-irradiation units, which is defined as $\eta = AB \cdot 100/Mk \cdot 3 \cdot 7 \cdot 10^{10} E_{\gamma} \cdot 1 \cdot 6 \cdot 10^{-6}$, are discussed. Here, A is the output of the unit in g/sec, B is the total radiation absorption in rad dose required for the object; 100 is the energy equivalent (1 rad = 100 erg/g); M is the gamma-ray equivalent of the source in g eq Ra; k is a factor necessary to express the gamma-ray equivalent in activity units (curies); $3 \cdot 7 \cdot 10^{10}$ is the number of decays per sec of a source of 1 curie activity; E_{\gamma} is the gamma-ray energy in Mev/decay; and $1 \cdot 6 \cdot 10^{-6}$ is the energy equivalent of 1 Mev. In most cases, active rods or rod assemblies (active planes) are used as irradiators, the object length d being equal to 0.7 - 0.8 L (L = length of the rod). Utilization can be Card 1/2

A method of increasing the ...

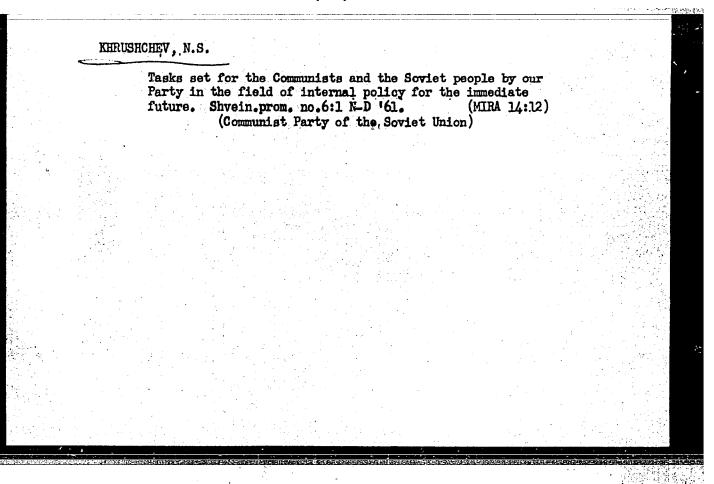
S/089/62/012/006/017/019 B102/B104

improved by increasing d. This method is feasible if no uniform irradiation of the object is required. If $d_1 = md$, $A_1 = mA$, and $\eta_1 = \eta m/n$, the activity of the source has to be increased by a factor n. The space around the source can be utilized much better if the objects are placed on conveyer lines and irradiated in two cycles (Fig. 2). In this case, the total length of the object (2d) may reach 1.5 - 1.6 L, and η is raised by 40%. There are 2 figures.

SUBMITTED:

December 2, 1961

Card 2/1 -



	KHRUSHCI	CHEY, N.
•		Message to the members of the International Trade-Union Congress for a German Peace Treaty, a Peaceful Settlement of the West Berlin Problem, and Against War Provocation. Vsem. prof. dvizh. no.11/12:59 N-D *61. (MIRA 14:11) (Trade unions-Congresses) (Germany-Peace treaties)
	÷	

KHRUSHCHEV, Nikita Sergeyevich; POLYAKOVA, N., red.; MUKHIN, Yu., tekhn. red.

[The building of communism in the U.S.S.R. and the development of agriculture]Stroitel'stvo kommunizma v SSSR i razvitie sel'skogo khoziaistva v piati tomakh. Moskva, Gospolitizdat. Vol.2. [February, 1955 - January, 1958]Fevral' 1955 goda - ianvar' 1958 goda. 1962. 533 p. (MIRA 15:10) (Agricultural policy)

For the solidarity, unity, and fraternity of workers of all countries!

Vsem prof. dvizh. no.1:7-16 Ja '62. (MIRA 15:2)

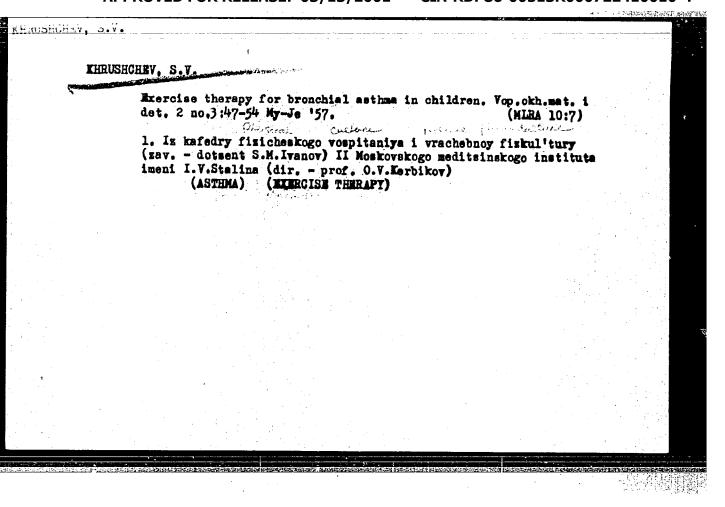
(Trade unions—Congresses) (Communism)

(World politics)

KHRUSHCHEV, Nikita Sergeyevich

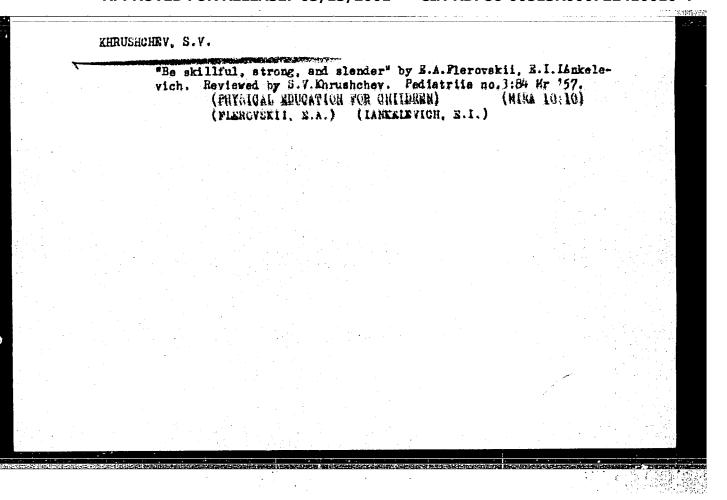
[All reserves of industry and construction in the service of communism! Speech at the assembly of industry and construction workers of the R.S.F.S.R., April 24, 1963] Vse rezervy promyshlennosti i stroitel'stva - na sluzhbu kommunizmu! Rech' na soveshchanii rabotnikov promyshlennosti i stroitel'stva RSFSR 24 aprelia 1963 goda. Moskva, Gospolitizdat, 1963. 78 p. (MIRA 16:4)

(Efficiency, Industrial)



KHRUSHCHEV, S.V., Cand Mod Sci-(diss) "Therapoutic physical culture in bronchial asthma in children." Pos, 1957. 17 pp (Second Mos State Fed Inst im M.I. Pirogov), 200 copies (KL, 22-58, 116)

-191-



LEBEDEVA, T.I.; KHRUSHCHEV, S.V., kand.med.nauk

Use of exercise therapy in the over-all treatment of poliomyelitis under hospital conditions. Vop.okh.mat.i det. 5 no.3:46-49 My-Je 160. (MIRA 13:7)

1. Iz kafedry detskikh infektsionnykh bolezney (zav. I.B. Apollonova) i kafedry fizicheskogo vospitaniya, lechebnoy fizkul'tury i vrachebnogo kontrolya (zav. S.V. Khrushchev) Ivanovskogo gosudarstvennogo meditsinskogo instituta (dir. - dotsent Ta.M. Romanov) i 1-y gorodskoy bol'nitsy (glavnyy vrach L.I. Safarov).

(POLIOMYELITIS) (EXERCISE THERAPY)

KHRUSHCHEV, S.V., dotsent; KARPOVA, T.M.

Physical education of senior students. Zdrav.Ros.Feder. 7 no.1:42 Ja *63. (MRA 16:2)

1. Iz Ivanovskogo meditsinskogo instituta.
(PHYSICAL KDUCATION AND TRAINING)

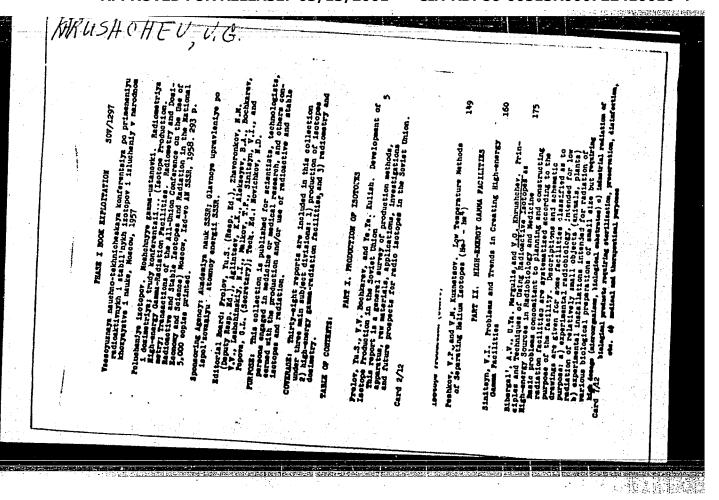
Rare case of congenital heart defect. Sbor. nauch. trud. Ivan. gos. med. inst. no. 28:206-209 1 63 (MIRA 19:1)

1. Iz kafedry gospital noy pediatrii (zav. - dotsent A.N. Karlova) Ivanovskogo gosudarstvennogo meditsinskogo instituta (rektor - dotsent Ya.M. Romanov) i l-y gorodskoy bol nitsy g. Ivanovo (glavnyy vrach - L.I. Safarov).

KHRUSHCI		
	Pavilion-type buildings of the ore-dressing industry 41 no.10:5-10 0 '63.	. Prom. stro1. (MIRA 16:11)
	1. Lenprometroyproyekt.	

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000722410010-4



KHRUSHCHEV, V.G.

"Installations for Experimental Irradiation". p. 129

Trudy Vsesoyuznoy Konferentsii po Mediusinskoy Hadiologii (Voprosy Gigiyeny i Dozimetrii) Medgiz, 1957, Moscow Russian, ok.

Proceedings of the All-Union Conference on Medical Regiology (Hygienic and Dosimetric Problems).

KHRUSHCHEV, V.G. KHRUSHCHEV Y.G.

AUTIOR:

DOMSHLYAK, M.P., KHRUSCHEV, V.G.

An Experimental Gamma Irradiator. (EGO-2)

PA - 2274

.

(Eksperimental'nyy gamma-obluchatel' (EGO-2), Russian).

PERIODICAL:

Atomnaia Energiia, 1957, Vol 2, Nr 2, pp 197 - 198 (U.S.S.R.).

ABSTRACT:

An experimental n-apparatus was constructed and put into service at the academy of medical science of the USSR in Moscow. It mainly serves for the irradiation of laboratory animals in order to study the biological effect of n-radiation. Besides, this apparatus is suited for the study of the problem of "cold sterilization" and of the influence of radiation on the course of chemical processes in various media. The apparatus uses a set of C⁶⁰ - preparations with a total activity of 5 curie. These preparations are distributed in such a manner that a cylindrical space with a diameter of 30 cm and a length of 70 cm can be irradiated uniformly. With less uniformity it is possible to irradiate a cylindrical space of a diameter of 50 cm and a length of 100 cm. The apparatus is suited for various radiation dosage outputs: 200 r/min, 400 r/min, and 600 r/min.

This stationary apparatus consists of two mixing basins filled with water with concrete walls of a density of 3,5 t/m³. Such a density warrants a reduction of the background of M-radiation to a harmless level. The first, small basin serves for the reception, treatment and measuring of radioactive preparations. In the

Card 1/2

An Experimental Gamma Irradiator.

PA - 2274

second basin, which is larger, there are the radiation sources, a cylindrical chamber for the objects to be irradiated. The cylindrical chamber was fitted to the front wall of the large basin and has a massive cast-iron protective door. The device with the radiation sources is in the opposite part of the basin. The chamber can be charged without danger. The preparations are brought into working position hydraulically. On this occasion the preparations are shifted through pipes and they are distributed round the cylindrical chamber, The object is then irradiated through the aluminium wall of this chamber. Shifting of the preparations takes two seconds and is remote-controlled.

This &-irradiator has several advantages: It is possible to irradiate large animals in a uniform radiation field with strong radiation doses. Besides, N-irradiator warrants great stability of the conditions of radiation influence. At present this M-irradiator is being used for numerous experimental investigations within the domain of radio biology, physical chemistry, and dosimetry. (2 illustrations).

ASSOCIATION: PRESENTED BY: SUBMITTED, AVAILABLE: Card 2/2

TROITSKIY, V. L. and KHRUSHCHEV, V. G.

"Ways of Use of Ionizing Radiation in the Manufacture of Bacterial Preparations."

paper to be presented at 2nd UN Intl. Conf. on the peaceful uses of Atomic Energy, Geneva, 1 - 13 Sep 58.

26-58-7-21/48

建设图第

AUTHORS:

Rubin, B.A., Professor, Metlitskiy, L.V., Khrushchev, V.G.

TITLE:

The Use of Gamma Rays in Long-Period Storage of Potatoes (Ispol'zovaniye gamma-luchey pri dlitel'nom khranenii kar-

tofelya)

PERIODICAL:

Priroda, 1958, Nr 7, pp 91-94 (USSR)

ABSTRACT:

Large amounts of potatoes stored over a long period of time at temperatures above 5°C are subject to fast rotting, while at temperatures below 5°C they soon acquire a sweetish taste, take a longer time until they are sufficiently cooked and are inclined to get black spots when being cooked. Dusting with 3.5% of methyl ether of alpha-naphthyl acetic acid preserves the bulbs over an extended period of time but makes them an easier prey to the attacks of microorganisms. X-ray doses of 10,000 to 16,000 r applied to the potatoes at normal temperatures kept them fresh for 8 months. By their physical nature and biological effect, gamma rays are close to X-rays, but can be used easier under normal conditions. Their application for potato storage purposes, however, remains in the experimental stage, since the changes occurring in the potato tissues have not been studied sufficient-

Card 1/3

26-58-7-21/48

The Use of Gamma Rays in Long-Period Storage of Potatoes

ly . This was done by the authors of the article together with Ye.T. Mukhina, Ye.T. Sal'nikova, N.P. Korableva, A.V. Mikheyeva and N.P. morozova, in order to find the best factors for gamma radiation application. It was found out that the meristematic tissues stay alive at a radiation dose of up to 50,000 r, while they undergo changes at 10,000 r, such as a reduction of nucleic acids by 10% which increases to 25% within 2 months. Doses of 100,000 r killed the Phytophtora infestans fungus. The Institut pitaniya AMN SSSR (The USSR Academy of Medical Sciences' Food Institute) has for several years conducted experiments with animals that were fed with potatoes radiated with doses of up to 40,000 r. No negative results were observed. The vitamin C content is reduced, decreasing immediately upon the radiation but increasing again with time, and attaining the normal level in spring. A dose of 10,000 r gave the best results for a period of 300 days, 10% losses as compared with 30% in untreated potatoes. The authors suggest a mobile irradiation station of a simple construction principle sufficient for the radiation of 25 to 30,000 tons of potatoes.

Card 2/3

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP8

CIA-RDP86-00513R000722410010-4

26-58-7-21/48

The Use of Gamma Rays in Long-Period Storage of Potatoes

There is 1 photo and 1 figure.

ASSOCIATION:

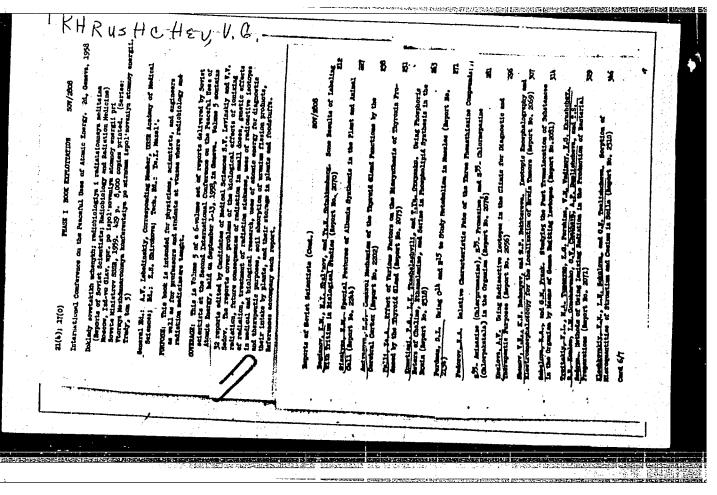
Institut biokhimii imeni A.N. Bakha AN SSSR - Moskva (Institute of Biochemistry imeni A.N. Bakh of the AS USSR - Moscow)

1. Potatoes-Storage 2. Gamma rays--Applications

Card 3/3

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000722410010-4



DOMSHLAK, M.F.; DARENSKAYA, N.G.; KOZHOVA, L.B.; KHRUSHCHEV, V.G.

Problems in experimental techniques of radiation effects and certain radiobiological data. Med.rad. 4 no.12:3-11 D 159.

(RADIATION EFFECTS)

(NIRA 13:5)

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000722410010-4

KHRUSHCHE 174 PHASE I BOOK EXPLOITATION SOV/5410 Tachkentskaya konferentsiya po mirnomu ispol'zovaniyu atomnoy Truly (Transactions of the Tashkent Conference on the Peaceful Uses of Atomic Energy) v. 2. Tashkent, Izd-vo AN UrssR, 1960. Sponsoring Agency: Akademiya nauk Uzbekskoy SSR. Responsible Ed.: S. V. Starodubtsev, Academician, Academy of Sciences Uzbek SSR. Editorial Board: A. A. Abdullayev, Candidate of Physics and Mathematics; D. M. Abdurasulov, Dector didate of Physics and Mathematics; D. M. Abdurasulov, Dector Sciences Uzbek SSR; A. A. Borodulina, Candidate of Biological Sciences; V. N. Ivashev; G. S. Ikramova; A. Ye. Kiv; Ye. N. Icbanov, Candidate of Physics and Mathematics; A. I. Nikolayev, Candidate of Medical Sciences; D. Nishanov, Candidate of Chemical Sciences; A. S. Sadykov, Corresponding Member, Academy of Sciences USSR, Academician, Academy of Sciences Uzbek SSR; Yu. N. Talanin, Card 1/20

Transactions of the Tashkent (Cont.)

Candidate of Physics and Mathematics; Ya, Kh. Turakulov, Doctor of Biological Sciences. Ed.: R. I. Khamidov; Tech. Ed.: A. G. Babakhanova.

PURIOSE: The publication is intended for scientific workers and specialists employed in enterprises where radioactive isotopes and nuclear radiation are used for research in chemical, geological, and technological fields.

COVERAGE: This collection of 133 articles represents the second volume of the Transactions of the Tashkent Conference on the Fasceful Uses of Atomic Energy. The individual articles deal including production and chemical enalysis of radioactive isotopes; investigation of the kinetics of chemical reactions by means of isotopes; application of spectral analysis for the manufacturing of radioactive preparations; radioactive methods for determining the content of elements in the rocks; and an analysis of methods for obtaining pure substances. Certain

Card 2/20

	A DEPOSIT OF THE PROPERTY AND A STREET OF THE PROPERTY OF THE	SHARRAN HE	SERVER PROPERTY.
•			
			-0.
		176	
	Transactions of the Tashkent (Cont.)		
	instruments was a		•
	instruments used, such as sufcounts		
	instruments used, such as automatic regulators, flormeters, lo personalities are mentioned. References following and instruments.		
	No nerspinalities are mentioned. References follow individual		
	i Turtaturi		
	TABLE OF CONTENTS:		
- 1	RADIOACTIVE ISOTOPES AND NUCLEAR RADIATION IN ENGINEERING AND GROVES REPORTED IN THE PROPERTY OF THE PROPERTY	i de la filo	
I	IN ENGINEERING AND GEOLOGY		
l	Lobanov, Y2. M. [Institut yadornoy fiziki UZSSR - Institute of and Nuclear Radiation in Application of Radioscitus Times		_
ì	Nuclear Physics AS UZSSR]. Application of Radioactive Isotopos		
	and Nuclear Radiation in Uzberian of Radioactive Tactor		
		7	
	SSR - Institute and V. A. Yanushkovskiy [Tretter		
1	Taksar, I. M., and V. A. Yanushkovskiy [Institut fiziki AN Latv SSR - Institute of Physics AS Latvian SSR]. Problems of the Radioactive Instance.		
. [Typification of Automatic-Control Apparatus Based on the Use of		
. !	on the use or		
i	Card 3/20	1	
1			
•			
•			
	그리는 경기 사람들은 사람들은 사람들은 그들은 그들은 사람들이 되었다.		
र भागमाना है।		CONTRACTOR OF STREET	
			一中中的特殊的法的研究的

, ; =		S 14 50 K 15 W	
A THE PERSON NAMED IN	The state of the s		
1	THE PARTY OF PRINCE AND THE PARTY PRINCES OF		
	grand the second of the second	100	
		on the self-dependence than to	
		19	
	Transactions of the Tashkent (Cont.) SOV/5410	•	
	Khrushchev, V. G., A. S. Lepilin, U. Ya. Margulis, S. M. Stepand, L. T. Belen Kly, T. V. Bromberg, and V. G. Ivliyev [Ministry Health USSR]. Industrial Gamma-Plant for Sterilization of Medical Materials	or, of	
		170	
	Khrushchev, V. G., B. A. Rubin, L. V. Metlitskiy, A. I. Rytov, N. H. Gaysin, U. Ya. Margulis, V. S. Grammatikati, V. G. Vlasov, and A. V. Petrov [Ministry of Health USSR]. Gamma-Plant for Centinuous Irradiation of Potatoes	182	
	Prokof'yev, N. S. [Institut ekonomiki AN SSSR - Institute of Economics AS USSR]. Economic Efficiency of the Use of High-Capacity Camma-Plants in the Light and Food Industry	192	
	Abdullayev, A. A., Ye. M. Lobanov, A. P. Novikov, and A. A. Khaydarov [Institute of Nuclear Physics AS UZSSR]. Use of a Multichannel Scintillation Gamma-Spectrometer for the Analysis of Rock Specimens		
j		199	
1	Card 10/20		
<u>1</u>	the control of the second seco		
		· <u> </u>	
			<u></u>

21.5000

SOV/89-8-2-18/30

AUTHORS:

Grammatikati, V. S., Margulis, U. Ya., Khrushchev, V. G.

TITLE:

The Dose Field of a Linear Source. Letter to the

Editor

PERIODICAL:

Atomnaya energiya, 1960, Vol 8, Nr 2, pp 154-155 (USSR)

ABSTRACT:

Since radioactive line sources are fairly common in applied and experimental devices, the authors thought it useful to present an approximate but sufficiently accurate method of calculations. As is known, the dose strength PA of point A at distance h inside an object,

Fig. 1, can be represented by means of tabulated inte-

grals of Sievert (see ref):

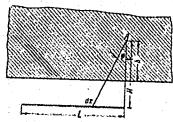
$$P_{A} = \frac{k_{\gamma} m}{H} \left[-4 \int_{0}^{q_{0}} \int_{0}^{-\mu h} \frac{(u_{1} + 1) \sec \varphi}{c} d\varphi + \frac{q_{0}}{2} \int_{0}^{q_{0}} e^{-\mu h} \frac{(u_{2} + 1) \sec \varphi}{c} d\psi \right]. \tag{3}$$

Card · 1/6

The Dose Field of a Linear Source. Letter to the Editor

77253 SOV/89-8-2-18/30

where $\varphi_0 = \tan^{-1}\frac{h}{H}$; H is distance from point A to the source; k_{γ} , γ -constant of the isotrope; m, linear activity of the source in μ Curie/cm (if m is expressed in mg equivalent Ra, then $k_{\gamma} = 8.4$ R/h = 0.14 R/min); μ , linear coefficient of decrease of a thin beam of γ -rays; $A_2 = 1 - A_1$, a constant; α and α constants whose values for various absorbers and various energies of radiation are given in Goldstein's report and Rockwell's book (see refs).



Card 2/6

Fig. 1. Diagram for calculations of doses due to a linear source.

The Dose Field of a Linear Source. Letter to the Editor

77253 SOV/89-8-2-18/30

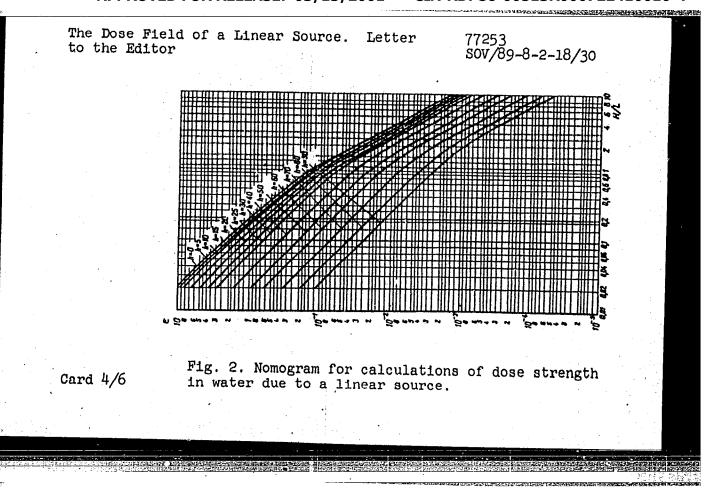
Equation (3) holds for an object of infinite length and is also good for bounded geometry to approximately 10% accuracy. The authors computed the dose field for ${\rm Co}^{0}$ rays. Absorber was water, and values of constants used in the computation of Fig. 2 were: $\mu=0.063$ cm⁻¹; $\alpha_{1}=-0.095$; $\alpha_{2}=0.060$; $\alpha_{1}=8.88$; $\alpha_{2}=1-\alpha_{1}=-7.88$. To find from this picture the dose in air at a point A, one has to use the curve $\alpha_{1}=0.063$ approximate formula accurate to 10-15% is:

 $P_A := P_0 \eta e^{-0.05 (h - \Delta)},$

(6)

where P_{o} is dose strength in air at the given point, and μ and Δ are constants, depending on ratio H/L. This formula works for cases $h\geqslant$ 10 cm, at H/L \leqslant 0.1; for $h\geqslant$ 15 cm, at 0.6 \geqslant H/L \geqslant 0.2; and for $h\geqslant$ 20 cm,

Card 3/6



"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000722410010-4

The Dose Field of a Linear Source. Letter to the Editor

77253 SOV/89-8-2-18/30

at 10 > H/L > 0.7. For smaller values of h one uses:

 $P_A = P_0 \left[1 - 2 \cdot 10^{-2} \left(h - \sigma \right) \right].$ (7)

For both equations the constants are given in Table A. Table A. Values of Constants in Eq. (6) and (7).

interval of Values H/L	• 17	Δ	σ	CHECULATIONS MADE VIEWS E GUATION (1) FOR THE FOLLOWING VAVEVES OF A, CM
0,2-0,6	(1-2·10-3 h)	5	0	<10
	1	8	3	<15
	1	12	3	<20
	(1+4·10-3 h)	15	5	<20

Card 5/6

The Dose Field of a Linear Source. Letter to the Editor

77253 SOV/89-8-2-18/30

In case of a medium other than water with a density ρ , at a depth h^1 one can utilize Fig. 2 or Eq. (6) and (7) for a given H/L by writing $h = \rho$ h^1 . There are 2 figures; 1 table; and 5 references, 1 Swedish, 4 U.S. The U.S. references are: H. Goldstein, Calculation of the Pentration of γ -Rays, US AEC, report NDA-NVO 3075 (1954); U. Fano, Nucleonics, 2, Nr 8, 1 (1953); L. Spencer, U. Fano, J. Res. Nat. Bur. Standards, 46, 446 (1951); Shielding of Nuclear Reactor, edited by T. Rockwell, M.Izd-vo inostr. lit. 1958.

SUBMITTED:

May 4, 1959

Card 6/6

MARGULIS, U. Ya.; STEPANOV, S.M.; KHRUSHCHEV, V.Q.

Calculation of the dose received by an irradiated object moving

in the field of radiation of a line source. Atom.energ. 9
no.4:320 0 60. (MIRA 13:9)

(Radiation-Dosage)

LIVANOV, M.N.; TSYPIN, A.B.; TRIGOR'YEV, Yu.G.; KHRUSHCHEV, V.G.; STEPANOV, S.M.; ANAN'YEV, V.M. (Moskva)

Effect of an electromagnetic field on the bioelectric activity of the cerebral cortex in rabbits. Biul. eksp. biol. i med. 49 no. 63-67 My 160. (MIRA 13:12)

1. Predstavlena deystvitel'nym chlenom AMN SSSR V.V. Parinym. (ELECTRO MAGNETIC WAVES—PHYSIOLOGICAL EFFECT) (CEREBRAL CORTEX)

KOZNOVA, L.B.; KHRUSHCHEV, V.G.

Some data on radiation effects with high dosage intensity. Med. rad. 5 no.10:61-67 '60. (MIRA 14:2)

(RADIATION-PHYSIOLOGICAL EFFECT)

376山

5/638/61/003/000/002/005 D296/D307

27.1220

AUTHORS:

Darenskaya, N.G., Domshlak, M.P., Koznova, L.B., and

Khrushchev. V.G.

TITLE:

A γ-ray device with an activity of 32,000 g-equivalent radium (Results of some biological investigations)

SOURCE:

Trudy Tashkentskoy konferentsii po mirnomu ispol'zova-

niyu atomnoy energii, v. 3, Tashkent, Izd-vo AN Uzb.

SSR, 1961, 63 - 69

TEXT: The authors describe in detail a new powerful γ-ray device: 900-20 (EGO-20) suitable for experimental irradiation of all types of laboratory animals. The device was used to study the biological effects of very large doses of radiation to corroborate reports, according to which exposure to radiation at a higher rate produces less marked biological effects than the same dose administered over a longer period. The device consists of 2 containers, the first of which measures 280 x 140 x 380 cm in size and serves as receptacle for the Co⁶⁰ elements; in this container the elements are assorted, arranged and put into working position in the desired strength and Card 1/3

A γ-ray device with an activity of ... S/638/61/003/000/002/005 D296/D307

but rats exposed to the higher rate (2000 r/min) lived 27 hrs. 50 min. compared to an average of 10 hours 27 min. in rats exposed to the lower rate (387-500 r/min). In mice the difference was even more striking: 20 hours 28 min. and 4 hours 26 min. respectively. Convuldiation: after 10 - 20 min. (total dose 15,000 r) and 4 min. (total dose 30,000 r) respectively. Dogs exposed to 2000 r/min showed the first convulsions after 40-45 min. (15,000 r) and 20-40 min. (30,000 and the onset of convulsions was about twice as long in animals exposed to the higher rate. These findings are consistent with the specific features an increase in the rate of administration may tion doses. There are 3 figures and 3 tables. The most important Research, 1, 5, 437-447, 1954.

ASSOCIATION: Ministerstvo zdravookhraneniya SSSR (USSR Ministry of Card 3/3

32759

29.2400

S/205/61/001/006/019/022 D243/D305

AUTHORS:

Khrushchev, V.G., Darenskaya, N.G., and Pravdina, G.M.

TITLE:

The behavior of mice in a field of γ -radiation

PERIODICAL: Radiobiologiya, v. 1, no. 6, 1961, 940 - 945

TEXT: The authors studied mouse behavior in a γ -radiation field by a new method. Previous work is briefly surveyed and its limitations indicated, namely: 1) There is little information on the immediate effects of radiation; 2) The qualitative aspect of responses is usually described; 3) High radiation doses were used; and 4) Reactions were studied against a background of active radiation sickness. In the present method the animal chooses water or food from an irradiated or protected site. A special, two-sectioned chamber or organic glass was constructed, the sections being joined by a passage which could be closed when needed. In one chamber, the animals were kept, and in the other, were two symmetrically placed by acted as a γ -radiation source, equivalent to 90 mg. equiv. of Card 1/3

32759 \$/205/61/001/006/019/022 D243/D305

The behavior of mice in a field ...

radium. Duration of the animal's stay at the water trough was measured. 70 white mice of 18 - 22 g wt. were subjected to total, cranical or abdominal radiation. Groups of 10 - 20 mice were kept in the chamber constantly, mainly in the first compartment, entering the second for short periods to feed. The acclimatization period was 2-3 weeks. Before irradiation, both troughs were used equally. With total irradiation, observations were carried out over a 70 day period. Irradiation during feeding was 0.0023 rads/sec, the source changing from one trough to the other five times. In cranial and abdominal radiation, observations were carried out over 45 days, after which the animals were killed and autopsied, and 55 days, respectively. The source switched troughs three times, and the radiation rate was 0.35 - 0.45 rads/sec. After irradiation, water intake fell in most cases for 2-3 days, most markedly after cranial irradiation. Then, water was selectively taken at the unirradiated trough. This selectivity occurred after all types of radiation but was commonest after total irradiation; it was shown, moreover, that it begins immediately after radiation commences, i.e. at doses of 1-2 rads. for cranial and abdominal irradiation and 0.001 - 0.05 rads. for total radiation. Experiments were carried out to demon-

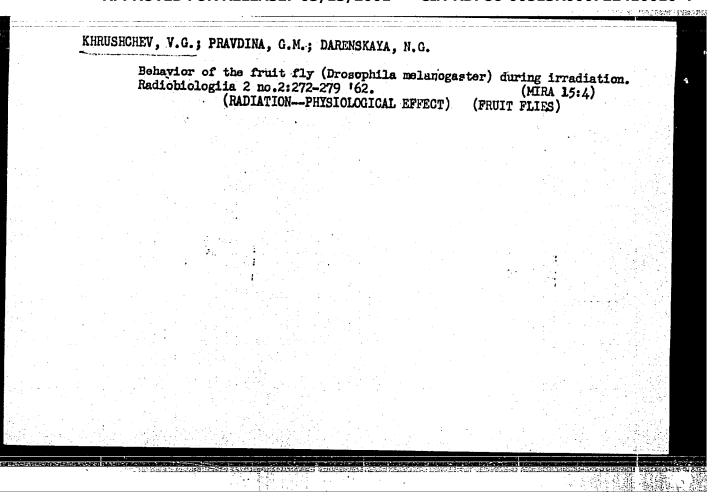
32759 S/205/61/001/006/019/022 D243/D305

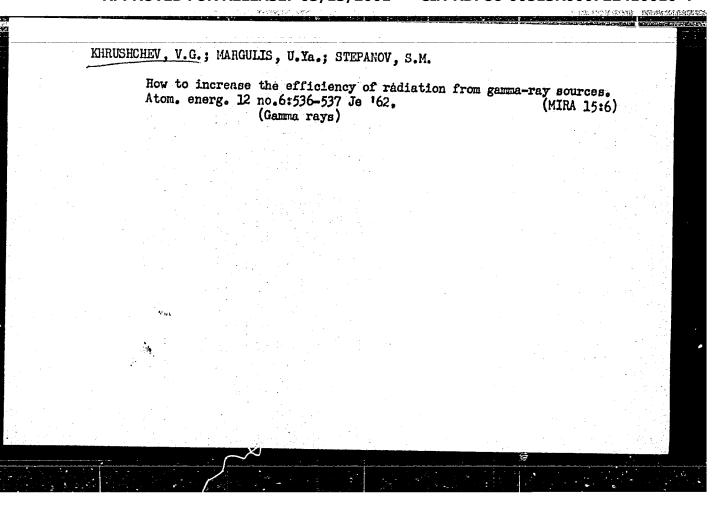
The behavior of mice in a field ...

strate that selectivity was not caused by post-radiation changes in water properties or radical and peroxide compount formation or by light sensations. It is not the result of the damaging action of γ-radiation or mediated via the visual, suprarenal and hypophyseal systems (Ref. 25: J. Garcia and D.J. Kimeldorf, Compar, and Physiol Psychol. 51, 288, 1958). It is suggested that this method can be used to study the reaction of other organs to radiation and to determine threshold doses and individual sensitivity. There are 2 figures and 26 references: 10 Soviet-bloc and 16 non-Soviet-bloc. The four most recent references to the English-language publications read as follows: O.D. Hug. Intern. J. Rad. Biology, 1960, Soppl.; D.J. Kimeldorf, J. Garcia and D.O. Rubadeou, Radiation Res. 12, 6, 710, 1960; H.L. Andrews and L.M. Cameron, Proc. Soc. Exptl. Biol. and Med., 103, 3, 565, 1960; J. Garcia and D.J. Kimeldorf, Radiation Res., 12, 6, 719, 1960.

SUBMITTED: July 19, 1961

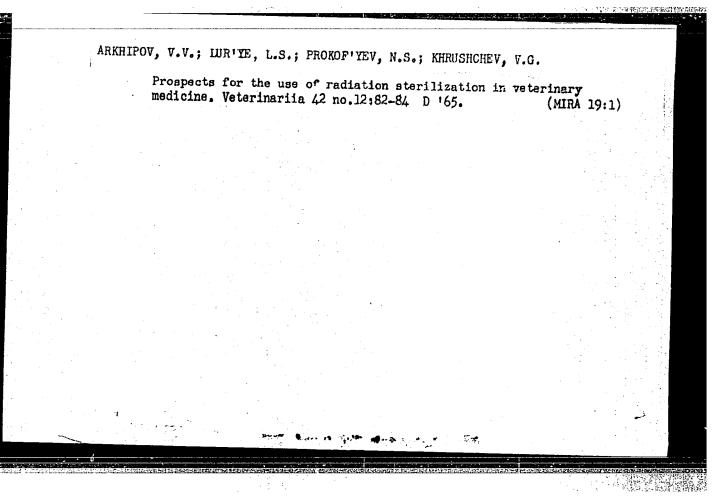
Card 3/3





LUR: YE, L.S.; KHRUSHCNEV, V.G.; YELISEYEV, V.S.; KUZNETSOV, S.V.

Irradiation plants at the All-Union Scientific Research
Institute for the Sisctrification of Agriculture. Atom.
energ. 19 no.2:212-216 Ag '65. (MIRA 18:9)



RD/GD AT6031238 SOURCE CODE: UR/0000/65/000/000/0001/0019 AUTHOR: Darenskaya, N. G.; Pravdina, G. M.; Khrushchev, V. G.

ORG: none

EWT(m)

L 04237-67

TITLE: Behavior of living organisms in radiation fields

SOURCE: USSR. Gosudarstvennyy komitet po ispol'zovaniyu atomnoy energii. Doklady, 1965. Povedeniye zhivykh organizmov v polyakh izlucheniy, 1-19

TOPIC TAGS: radiation sensitivity, radiation biologic effect, radiation effect, radiation threshold, irradiation effect, gamma radiation

ABSTRACT: A method is described which makes it possible to measure the reactions of different species of animals to small amounts of radiation emitted at a constant rate, and thus to determine their individual sensitivity to radiation. The method was used to test the radiation sensitivity of mice, rats, guinea pigs, and monkeys. It was found that the animals reacted to very small amounts of radiation: 1-2 r when irradiated in the cephalic or abdominal region, and 0.001-0.05 r when exposed to total-body irradiation. It was also found that the different species developed the ability to sense and avoid the danger zone; thus a drinking

Card 1/2

		bowl amou guine	AT603 kept in ints to ea pigs,	a zo: which	· MANTATICATI	c for m	u unde ice. ar	r total rad	intime	he animals. ere: 0.0017 r rats. Ori	. ,	_	
s P ^{rof}			. 4 (5) (2, 7)	440		1.32 875			': 016/	OTH REF:	020/		7 - - - - - - - - -
-				:									
									•				
		•						• 					
	Çgr	d <u>.2/2</u>	fw T	May.	SUPPLY OF	TEN S		N. COLUMN			Silvelle		

) 10070-07 dat(n) d) ACC NR: AT602962)	SOURCE CODE: UR/0000/66/	000/000/0007/0033
All'ifeR: Demshlak, H. P.; Daronskaya, N. G. Stopmov, S. H. (deceased)	; Mirushchov, V. G.; Koznov.	a, L. B.;
OffG: nono		
TITLE: X-ray and gamma irradiation in expo	rimontal radiobiology	
SOURCE: Voprosy obshchoy radiobiologii (Pr Atomizdat, 1966, 7-33	oblems of general radiobiol	ogy). Moscow,
TOPIC TAGS: X-ray irradiation, gamma irradiarian dosimotry, irradiation effect	iation, radiobiology, irrad	iation apparatus,
ABSTRACT: l'aterials on radiobiological stu experimentation are presented. The authors experimental methods and try to point out to experimental methods and techniques. Speci experimental investigations include the fol considered most effective for irradiation of X-ray irradiation units are considered effeirradiation, the RBE of different types of large and small animals. In conducting exp	evaluate various standard of the pathways for future development of the recommendations for conclusing. An EGO-2 gamma irraft large and small laboratory ctive for investigating larginariation and subacute irradiation and subacute irradiation.	radiobiological lopment of ducting adiation unit is y animals. go dose radiation of
Cord 1/2		
	and the state of t	The state of the s

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000722410010-4

· L 10279-67

ACC NR: AT6029623

rate of irradiated animals, the selected LD_{100/30} should be 5% higher than the standard dose value to avoid significant fluctuations (± 5%). In evaluating investigation results, it should be noted that change of gamma or x-ray irradiation dose rates within the 15 to 150 r/min range does not seriously affect irradiation action; also, decrease of gamma or x-ray irradiation dose rates below 15 r/min or increase exceeding 2000 r/min weakens the biological radiation effect. For more effective comparison of radiosensitivity, experimental animals should be of the same sex, same weight category and ago. In evaluating experimental data the following factors should be taken into consideration: time of year animals were irradiated, radiosensitivity differences of the given animal strain or line, and indices showing the statistical reliability of experimental results. Orig. art. has: 10 tables and 12 figures.

SUB CODE: 06/ SUEM DATE: 23 Apr66/ ORIG REF: 019/ OTH REF: 005

Card 2/2

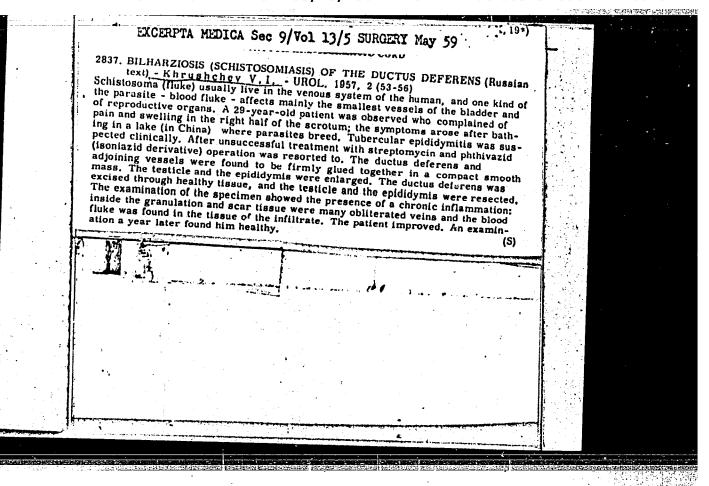
E 11277-67 ENT(1)/ENT(m) JK/GD SOURCE CODE: UR/0000/66/000/000/0273/0277
NUTIOR: Pershina, Z. G.; Koznova, L. B.; Sobolev, S. M.; Khrushchev, V. G.
RG: none
TITIE: Influence of dose rate and time factor on the bactericidal effect of
radiation (
SOURCE: Voprosy obshchey radiobiologii (Problems of general radiobiology). Moscow, stokizdat, 1966, 273-277
COPIC TAGS: microorganism contamination, gamma irradiation, particular radiation iologic effect, irradiation intensity
BSTRACT: Experiments were conducted on vogetative microorganisms, B. coli 613, and on spore form microorganisms, B. anthracoides, to determine the influence of dose rate and time on the bactericidal effect of irradiation. B. coli 613 were gamma irradiated with single 50 kr doses at dose rates of 111.5 r/min (7 hr 29 min), 334.5 r/min (2 hrs 19 min), 600 r/min (83 min 20 sec) and 14,760 r/min (3 min 23 sec). The highest actoricidal effects were found with dose rates of 111.5 and 334.5 r/min. Similar results were found with irradiation of B coli 613 with a 100,000 r dose at dose rates of 107 r/min (15 hrs 35 min) and 320 r/min (5hrs 12 min 30 sec). A complete actoricidal effect was achieved with the 107 r/min dose rate, while with the 320 r/min
Card 1/2

L 11277-67		
ACC NR: AT6029636		7
dose rate the bacterial colonies increased b	v 2.3 x 10 ⁻⁵ %. The	vrenimenta en
p. anthracoldes, irradiation with a 800,000	r dose at a dose rate	0 of 19/4 m/man manager 1
- a complete dictericinal allact, thereas a da	co mato at 110 AAA /	
number of bacteria by 9 x 10-2%. With irrad	iation of bacteria in	n higher concentrations
using the same dose, a comparable dependence found, but is less markedly expressed. Expa	rimontal data about th	
The desired the the dose rate range of 1	11 5 to UR 000 -/	4.1
DACCELICIONE ELLECT PUTURA STUDIAS SHOULD	ha dimontal tarrar as	
irradiation conditions for complete bacteric	idal effects. Orig.	art. has: 2 tables.
SUB CODE: 06/ SUBM DATE: 23Apr66/ ORIG R	RP. OOK! OW DOD	
	TE + OOST OTH KEE:	
		이 경험을 하는 사람들은 사람들이 되었다.
Card 2/2 jb		

Methods for preventing neglected forms of bladder tumors. Voen, med. D '56.

(BLADDER--TUMORS)

(BLADDER--TUMORS)



USSR COUNTRY General Problems of Pathology. Tumors. Comparative Oncology. Human Neoplasms. CATEGORY ABS . JOUR. 23 1958, No. 107148 : RZhBiol., No. AUTHOR Khrushchev, V.I. TYST. TYTLM The Pathogenesis and Clinic of Cancer of the Urinary Bladder. Sov.meditsina, 1958, No.1, 112-116. ORIG. PUB. No abstract. ABSTRACT

CARD:

1/1

-38-

Ethogenesis and clinical picture of cancer of the urinary bladder. Sov.med. 22 no.1:112-116 Ja '58. (MIRA 11:4) 1. Iz Glavnogo voyennogo gospitalya imeni akad. N.N.Burdenko (Nachal'nik gospitalya - N.M.Nevskty) (BIADDER, neoplasma pathogen. & clin. menifest. (Rus))

Late results of treatment of tumors of the urinary bladder. Vrach.delo no.2:191 F '50. (MIRA 12:6) (BLANDER-TUMORS)

KHRUSHCHEV, V.I.

Modern views on the nature of epithelial tumors of the bladder and their classification. Urologia 24 no.5:3-8 S-0 '59. (MIRA 12:12)

1. Iz urologicheskogo (nach. I.S. Slizskiy) i patologoanatomicheskogo (nach. R.D. Shtern) otdeleniy Glavnogo voyennogo gospitalya imeni N.N. Burdenko.

(NEOPLASMS EPITHELIAL) (BLADDER neoplasms)

KHRUSHCHEV, V.I. (Moskva)

Comparative evaluation of therapeutic methods in cancer of the urinary bladder. Urologiia no.5:46-52 161. (MIRA 14:11)

1. Iz urologicheskogo (nach. I.S. Slizkiy) i rentgeno-terapevticheskogo (nach. A.N. Gamaleya) otdeleniy Glavnogo voyennogo gospitalya imeni N.N. Burdenko. (HLADDER--CANCER)

KHRUSHCHEV, V.I.

Dystopia of the kidneys, simulating acute appendicitis. Khirurgiia no.3:94-96 '62. (MIRA 15:3)

1. Iz urologicheskogo otdeleniya (nach. I.S. Slizkiy) Glavnogo voyennogo gospitalya imeni N.N. Burdenko.
(KIDNEYS—ABNORMITIES AND DEFORMITIES) (APPENDICITIS)

BARBUKOVA, V.I., kand. ist. nauk; DEMIDOVA, Z.F., kand. ist. nauk; POSELYANINA, O.K., kand. ist. nauk; SORIN, Yu.N., kand. ist. nauk; SHATVOROVA, V.D., kand. ist. nauk; KHEUSHCHEV. V.I.; STARODUETSEV, N.I.; SHVETS; I.Ye.; TOROPCHIN, N.S.; TOROP

[Krasnyi Aksay; from the history of the M.V.Frunze Rostov Plant of Agricultural Machinery]Krasnyi Aksai; iz istorii Rostovskogo zavoda sel'skokhoziaistvennogo mashinostroeniia imeni M.V.Frunze. Rostov-na-Domi, Rostovskoe knizhnoe izdvo, 1962. 158 p. (MIRA 15:9)

1. Prepodavateli Rostovskogo gosudarstvennogo universiteta (for Barbukova, Demidova, Poselyanina, Sorin, Shatvorova).

2. Otvetstvennyy sekretar' mnogotirazhnoy gazety "Krasnyy aksayets" (for Khrushchev).

3. Zaveduyushchiy kabinetom politicheskogo prosveshcheniya partiynogo komiteta Rostovskogo zavoda sel'skokhozyaystvennogo mashinostroyeniya "Krasnyy Aksay" (for Starodubtsev).

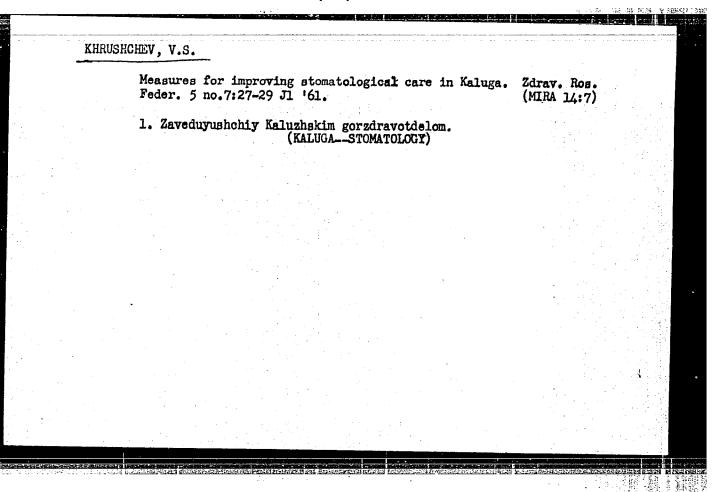
4. Rabochiy remontno-mekhanicheskogo tsekha Rostovskogo zavoda sel'skokhozyaystvennogo mashinostroyeniya "Krasnyy Aksay" (for Shvets).

(Rostov-on-Don---Agricultural machinery)

KHRUSHCHEV, V.P.

Introducing a machine for removing seams from rubber round drive belts. Biul.tekh.-ekon.inform.Gos.nauch.-issl.inst. nauch.i tekh.inform. 18 no.11:57 N '65.

(MIRA 18:12)

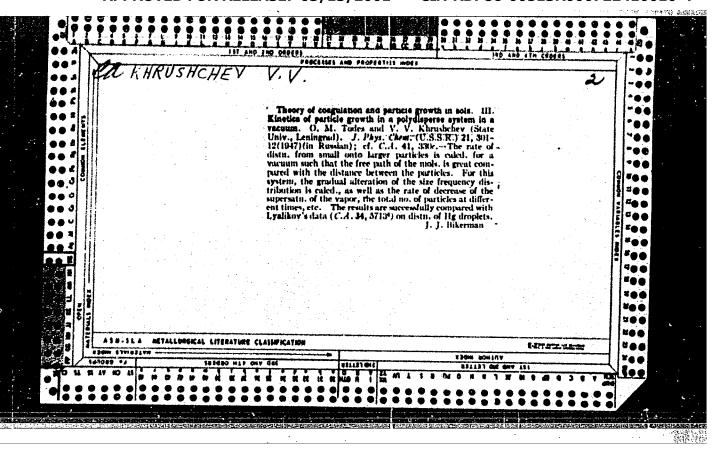


KHRUSHCHEV, V.S.; GOTLIB, V.O. (Kaluga)

Health day in Kaluga. Sov. zdrav. 21 no.3:31-33 '62. (MIRA 15:3)

1. Zaveduyushchiy Kaluzhskim gorodskim zdravotdelom (for Khrushchev). 2. Glavnyy vrach detskoy Kaluzhskoy gorodskoy bol'nitsy (for Gotlib).

(KALUGA---PUBLIC HEALTH)



KHRUSHCHEV, V. V.

The following is among dissertations of the Leningrad Polytechnic Institute imeni Kalinin:

"Application of the Method of the Transformation of Coordinates to the Theory of the Systems of Synchronous Relation ship on Phaneropolar selsyns are given and also equations of the most simple synchronous relationship consisting of two identical selsyns. Equations for different operating conditions of two selsyns have been investigated. An examination was made of the operation of a system in the absense of excitation on the receiver, of the conditions of small oscillations, and of certain asynchronous conditions of a system with two selsyns.

so: M-1048, 28 Mar 56

AF 1146902

KhRUShchev, V. V.

AUTHOR: Mkrtchyan, D. P., Khrushchev, V. V.

TITLE: Single-phase Selsyns (Odnofazny selsiny)

PUB. DATA: State United Publishing House of the Shipbuilding

Industry, Leningrad, 1957, 344 pages, 5,500 copies.

ORIG. AGENCY: None

EDITOR: Scientific Editor: Magin, S. M.; Editor: Isayev, V. A.;

Technical Editors: Dvorakovskaya, A. A., and

Frumkin, P. S.

PURPOSE: The book is intended for engineers and technicians

engaged in problems of selsyn design and operation and for studer's of advanced courses in university

schools of electrical engineering.

COVERAGE:

Preface: Prof. D. V. Vasil'yev and S. M. Magin are mentioned as

having submitted several valuable observations and

Card 1/13 indications efter reading the manuscript.

Call Nr: AF 1146902

Single-phase Selsyns (Cont.)

Introduction:

In the historical review (pp. 15-29), the following names of Russian and Soviet inventors and specialists in this field are given with a description of their inventions:

Geysler, a telegraph operator in St. Petersburg, who submitted in 1890 a synchro pulse transmission system for use in navigation control. Since 1898 this system has found wide application in the Russian Navy as the "Geysler System".

V. V. Kolokol'tsov, a naval officer who submitted in 1888 a system of d-c synchronous pulse signaling system in use in the Russian Navy since 1890.

F. N. Maksimov. a navy captain who submitted in 1892 a d-c pulse synchro-transmission system with a reluctance motor. This system found application only in the 1930's, when reluctance motors were improved.

Card 2/13

Single-phase Selsyns (Cont.)

Call Nr: AF 1146902

- I. C. Marugin introduced improvements in the above system by designing special transmitters consisting of a structural combination of the motor commutator with a potentiometer. The first single-phase a-c synchrotransmission was applied in the Russian Navy in 1913.
- A. G. Iosif'yan and D. V. Svecharnik. both working at the All-Union Institute of Electrical Engineering (VEI), submitted in 1938 a new type of mag-slip or contactless synchro, the "VEI mag-slip".
- I. D. Sadovskiv in 1939 obtained author's certificate Nr. 56183 for a mag-slip with two stators and rotors and Nr. 65902 for another type of mag-slip with a single stator and rotor and double windings.
- Ch. 2. G. I. Shturman, D. V. Vasil'yev and A. A. Gorodskoy are mentioned as the authors of works most completely developing the method of rotating fields in application to selsyns. A. G. Iosif'yan, L. N. Gruzov and V. V. Khrushchev are the authors of a "clear and

Card 3/13

Single-phase Selsyns (Cont.)

Call Nr: AF 1146902

simplified physical picture of the phenomena of double reaction occurring in selsyns" as well as of simplified formulae for synchronizing torques. L. N. Gruzov and G. I. Shturman worked on a theoretical analysis of synchro-transmitters with an electric differentiator.

Ch. 4. A mag-slip of the 5 C-404 A type and of the CC-404 type contact selsyn are discussed in connection with static errors. The salient-pole HA -501-type selsyn is analyzed as concerns the reactive moment of the toothed parts of the rotor and stator and this is compared with the toothed reactive moment curve of the 5 C-404 type selsyn.

Ch. 6. A two-step friction-inert damper submitted by D. P. Mkrtehyan in 1941 and applied in the CC-500 and DC-500 types of selsyns is described (p. 200-202). The following selsyns are described and illustrated: Contact selsyn of the CC-404-type operating with a A N-404 type transmitter, (pp. 204-206); contact

Card 4/13

Call Nr: AF 1146902

Single-phase Selsyns (Cont.)

selsyn-receiver of the HC-404 type operating with a HA-404 type transmitter (pp. 206-209); contact selsyn receiver of the HC-501 type operating with a HA-501 transmitter (pp. 209-211). Characteristic curves of these selsyns and some specifications are given. The electric differentiator of the H $_{2}$ A-101 type is described and some specifications given (pp. 213-215). The following mag-slips are described and illustrated with characteristic curves and some specifications given: 5C-404A (pp. 224-226);A5C-500 (pp. 227-230). Comparative data of contact and contactless selsyns are presented in a table (p. 231).

Appendix Nr. 3. (pp. 336-337) presents tables of electric and structural specifications of 50-cps contactless (mag-slip) and contact selsyns of the "new series", in all 20 types, including the indicator control-transformer types.

Card 5/13

Appendix Nr. 4. (p. 338) presents a table of electric and structural specifications of 50-cps selsyns of the "old series", in all 18 types.

Single-phase Selsyns (Cont.)	Call Nr: AF 1146902
Appendix Nr. 5. (p. 339) prepermissible number of receive mitter, with 16 types of receive transmitters.	ers switched on one trans-
There are 52 references of wh American and British.	nich 36 are USSR and 16 are
TABLE OF CONTEN	VTS
Preface	
Introduction	
1. Purpose of synchronous transmission and i characteristics	ts fundamental
2. Brief historical review of the development ransmitter systems	nt of synchro-

S	Single-phase Selsyns (Cont.) Call Nr: AF 11469	02	
	Chapter 1. Single-phase a-c Synchronous Transmission	•	
3	3. Arrangement of single-phase a-c synchronous-transmission elements	30	
4	4. Operating principle of a single-phase a-c synchro-transmitter system	33	
5	5. Simplified theory of a system of paired synchro-transmitters	35	
6	5. Damping of receiver oscillations in synchro-transmitter systems	43	
	Chapter 2. Theory of Synchro-transmitter Systems in Steady-state Conditions		
7	7. Methods of investigating single-phase a-c synchro-transmitter systems	50	
	3. Conversion of a three-phase synchronizing winding to an equivalent two-phase winding	51	
		·	

\cdot		
Single-phase Selsyns (Cont.)	Call Nr:	AF 1146902
9. Selsyn -emf and moment equations		56
10. Equivalent selsyn circuits		68
11. Selsyn-emf and moment equations at the d ₁ and axes, turned by a certain angle of with respect	i q _l [reci to d a	tangular] nd qaxes.72
12. Synchro-transmitter system for a small error a conditions of rotation (v = o)	ingle unde	er 75
13. Specific selsyn power at transverse axis		81
14.Paired-selsyn performance at any error angles		84
15. Paired synchro-transmitter system with the pha excitation voltages of transmitter and receive	se shift	of 100
16. Synchro-transmitter system in the presence of	a long li	ne 106
Card 8/13		

	Card	i 9/13	
	22.	Rules of substitution of the operator "p" in emf equations and for calculation of the electromagnetic moment	129
	21.	Emf and moment equation for small oscillations of a selsyn receiver rotor	127
	20.	Statement of the problem	124
		Chapter 3. Theory of Electric Damping of Selsyn-receiver Oscillations in Matching	
	19.	Synchro-transmitter system with an electric differentiator :	117
-	18.	Performance of selsyn receiver in the case of a powerful transmitter	115
	17.	Paired synchro-transmitter system without voltage on the receiver	113
	Sing	gle-phase Selsyns (Cont.) Call Nr: AF 11469	02
	•		

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000722410010-4"

Single-phase Selsyns (Cont.)	Call Nr: AF 4146902
23. Calculation of the coefficients TS and TD nizing and damping moments	of the synchro-
24. Duration of damping of selsyn receiver in mate	_
Chapter 4. Errors in Indicator Synchronous	
25. Preliminary considerations	• • • • • • 139
26. Static errors of indicator synchronous tran	
27. Dynamic errors of selsyn receiver	
28. Influence of network voltage and frequency on selsyn errors	
Chapter 5. Selsyn Performance in Transforme	r Operating Conditions
29. Purpose and principle of operation	•
Card 10/13	

Single-phase Selsyns (Cont.)	Call Nr: AF 1146902
30. Theory of synchro-control transforme	er transmission 161
31. Errors in synchro-control transforme	r transmission 167
Chapter 6. Construction	n of Selsyns
32. Comparison of structural forms of co	ntact selsyns 18h
3. Construction of contact selsyns	107
4. Construction of mag-slips	• • • • • • • • • • • • • • • • • • • •
35. Comparative evaluation of contact se	layns and mag-slips
Chapter 7. Design of	
6. Selection of basic dimensions, freque	
7. Calculation of the magnetic circuit cand mag-slips	of contact selsyns
ard 11/13	241

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP

CIA-RDP86-00513R000722410010-4

KHRUSHCHEV, VV

BESEKERSKIY, Viktor Antonovich, red.; ORLOV, V.P.; POLONSKAYA, L.V., Fedorov, S.M.; KHRUSHCHEV, V.V., nauchnyy red.; SHAURAK, Ye.H., red.; LEVOCHKIMA, L.I., TEKNH. red.

[Designing low-power servosystems] Proektirovanie slediashchikh sistem maloi moshchnosti. Pod red. V.A. Besekerskogo. Leningrad. Gos.soiuznoe izd-vo sudostroit. promyshl., 1958. 508 p. (MIRA 11:12) (Servomechanisms)

sov/110~59~5~16/25

AUTHOR:

Khrushchev, V.V., Candidate of Cammical. Sciences

TITLE:

Calculation of the Mechanical Characteristics of a Drag-Cup or Sleeve-Rotor Type Induction Motor on the Basis of the 2-Reaction Theory (Raschet mekhanicheskikh kharakteristik asinkhronnogo dvigatelya s polym rotorom na osnove teorii dvukh reaktsiy)

PERIODICAL: Vestnik elektropromyshlennosti, 1959, Nr 5, pp 58-61 (USSR)

ABSTRACT:

Calculation of the mechanical characteristics of a controlled drag-cup or sleeve-rotor type induction motor is usually based on the theory of rotating fields. However, this method involves laborious calculations on equivalent circuits for positive and negative phase-sequence at various motor speeds. This article describes the procedure for calculating the torque of a sleeve-rotor induction motor by the 2-reaction theory and formulae are derived by which the mechanical characteristics can be simply calculated for various supply conditions. The emf and torque equations of the sleeve-rotor induction motor can easily be formulated from the schematic circuit diagram of the motor given in Fig 1 and are of the form given in Eq (1). In formulating

Card 1/4

50V/110-59-5-16/25

位: 為對對 蘋葉

Calculation of the Mechanical Characteristics of a Drag-Cup or Sleeve-Rotor Type Induction Motor on the Basis of the 2-Reaction Theory

these equations it is assumed that the voltages and currents are sinusoidal, the mmf's of all the windings are sinusoidally distributed in space, there are no hysteresis or eddy-current losses in the steel, the leakage inductance of the hollow rotor may be neglected and all winding parameters, currents and voltages are referred to the field winding. On this basis expression(2) is derived for the torque. However, direct solution of Eq (1) and substitution of the currents in expression (2) leads to very complicated expressions and, accordingly, the forms of these equations are modified. Eventually expression (6) is derived for the torque and expression (7) for the direct and quadrature rotor currents. These expressions for the currents are substituted into expression (6) and the various components of the torque collected together to give Eq (8), (9) and (10). Their sum is the resultant torque of the motor. Card 2/4 The motor torque is then considered for several

SOV/110-59-5-16/25

Calculation of the Mechanical Characteristics of a Drag-Cup or Sleeve-Rotor Type Induction Motor on the Basis of the 2-Reaction Theory

particular cases. From examination of conditions when the control voltage is zero it is shown that the motor would not start in certain cases. Expression (12) is derived for the torque as a function of the speed for various values of control coefficient. From the formulae that are obtained it is easy to calculate the mechanical characteristics with various methods of control of the motor. Very often a rotating magnetic field is produced in a sleeve-rotor induction motor by connecting a capacitor in the field circuit, as shown in Fig 2. The effect of this on the torque formulae is then considered. Formula (20) is derived by means of which, if the field winding parameters are known, the values of the capacitor capacitance and the transformation ratio of the control winding may be determined. These values are the ones which give a circular rotating field when the motor is stationary, provided the control voltage is equal to the supply voltage. When a capacitor is used the torque equations (8), (9) and (10) assume the form

Card 3/4

sov/110-59-5-16/25

Calculation of the Mechanical Characteristics of a Drag-Cup or Sleeve-Rotor Type Induction Motor on the Basis of the 2-Reaction Theory

of (21), (22) and (23), the sum of which gives the total torque of the motor with a capacitor in the field circuit. A numerical example of calculation of the mechanical characteristics of a sleeve-rotor induction motor with capacitor in the field circuit is given as an appendix. There are 3 figures, 1 table and 2 references, 1 of which is Soviet and 1 English.

SUBMITTED: 10th February 1958

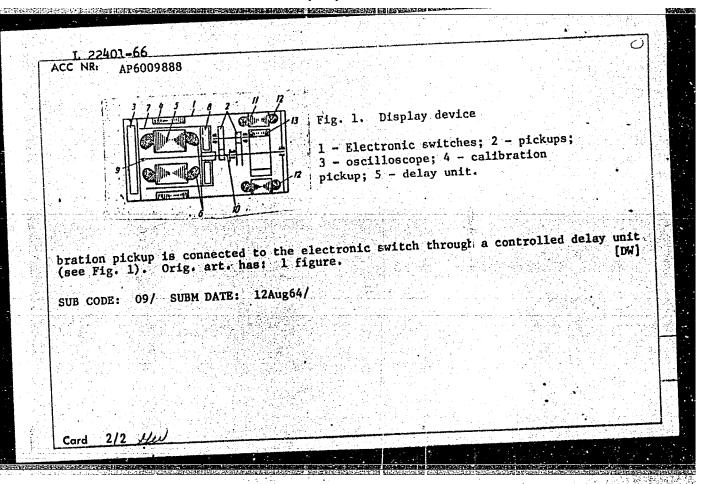
Card 4/4

ZAVALISHIN, Dmitriy Aleksandrovich; BARDINSKIY, Sergey Ivanovich;
PEVZNER, Osip Borisovich; FROLOV, Boris Vasil'yevich;
KHRUSHCHEV, Vitaliy Vasil'yevich; USSER, A.S., red.;
ZHIYNIKOVA, O.S., tekhn. red.

[Electrical machines with low-power ratings] Elektricheskie
mashiny maloi moshchnosti. [By] D.A.Zavalishin i dr. Moskva,
Gosenergoizdat, 1963. 431 p.

(MIRA 17:2)

1. 22401-66 ENT(1)/EHA(h) ACC NR: AP6009888 SOURCE CODE: UR/0413/66/000/004/0080/0081 INVENTOR: Gerasimov, A. Ya.; Khrushchev, V. V.; Lur'ye, L. Z.; Shtamm, Yu. P.; Ivanov, V. V.; Nokaln, E. A.	
TITLE: Device for the display of voltage curves on the screen of a cathode-ray oscilloscope. Class 42, No. 179019 [announced by the Special Design Office, AN oscilloscope, Class 42, No. 179019 [announced by the Special Design Office, AN oscilloscope, Konstruktorskoye byuro AN Estonskoy SSR)] SOURCE: Izobreteniya, promyshlennyye boraztsy, tovarnyye znaki, no. 4, 1966, 80-81 TOPIC TAGS: oscilloscope, data display, visual signal, display device ABSTRACT: The Author Certificate introduces a device for displaying voltage curves on an oscilloscope screen. For enhanced speed and occuracy, the electronic switches are an oscilloscope screen. For enhanced speed and occuracy, the electronic switches are fitted with elements which correct the characteristics of the pickups and the tubes. fitted with elements which correct the characteristics of the pickups and the tubes. In onder to move the caliby the voltage of the generator which feeds the pickups. In order to move the caliby the voltage of the generator which feeds the pickups. In order to move the caliby the voltage of the generator which feeds the pickups.	
UDC: 681.14	



CDUMANOVA-DUNAYEVA, G.A.: KHRUSHCHEVA, I.V. Effect of gramulated heptachlor combined with mineral fertilizers on the accumulation of the green bulk of corn. Trudy VIZR no.20 (MIRA 18:10) pt.1:36-38 *64.

KHRUSHCHEVA, K.A., uchitel nitsa (Leningrad) "Nature corner at achool" by M.Kotliar. Reviewed by K.A.Khrushcheva.

Biol.v shkole no.2:94-95 Mr-Ap 60.

(Nature study) (Kotliar, M.)

VISHNEVSKIY, A.A., prof.; GALANKIN, N.K., doktor med. nauk; ARAPOV, A.D.;

AKHMETOV, A.M.; VINITSKAYA, R.S., kand. biol. nauk; VCLYNSKIY,

Yu.D.; DARBINYAN, T.M., kand. med. nauk; DONETSKIY, D.A., kand.

med. nauk; KLEMENOVA, Ye.S.; KUDRYAVTSEVA, A.M., kand. med. nauk;

KRYMSKIY, L.D., kand. med. nauk; LOKSHINA, K.A.; MAZAYEV, P.N., prof.; PANOVA,

Yu.M.; PROMTOVA, T.N., kand. biol. nauk; PYL'TSOV, I.M.; SERGEYEVA,

Yu.M.; PROMTOVA, T.N., kand. biol. nauk; KHRUSHCHEVA,

K.A., kand. med. nauk; KHARNAS, S.Sh., kand. med. nauk; KHRUSHCHEVA,

kand. med. nauk; TSUKERMAN, B.M., kand. biol. nauk; SHIK, L.L.,

prof.; GOL'DGAMMER, K.K., red.; BALDINA, N.F., tekhn. red.

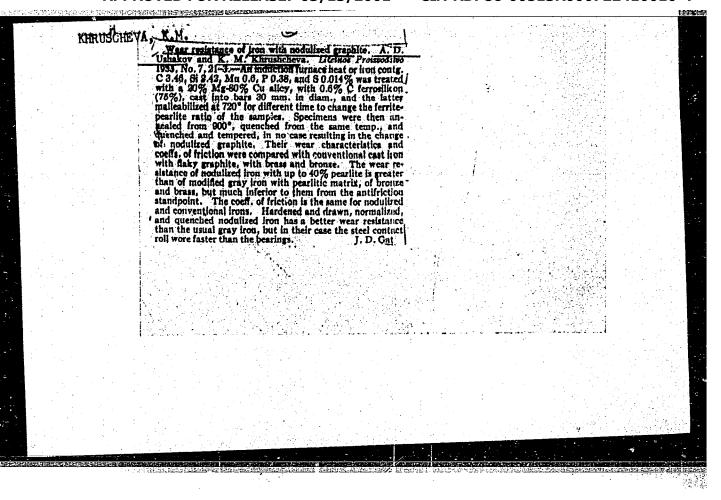
[Congenital defects of the heart and large vessels]Vrozhdennye poroki serdtsa i krupnykh sosudov; rukovodstvo dlia vrachei. Moroki, Medgiz, 1962. 577 p. (MIRA 16:1)

1. Deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR (for Vishnevskiy).

(CARDIOVASCULAR SYSTEM--DISEASES)

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000722410010-4

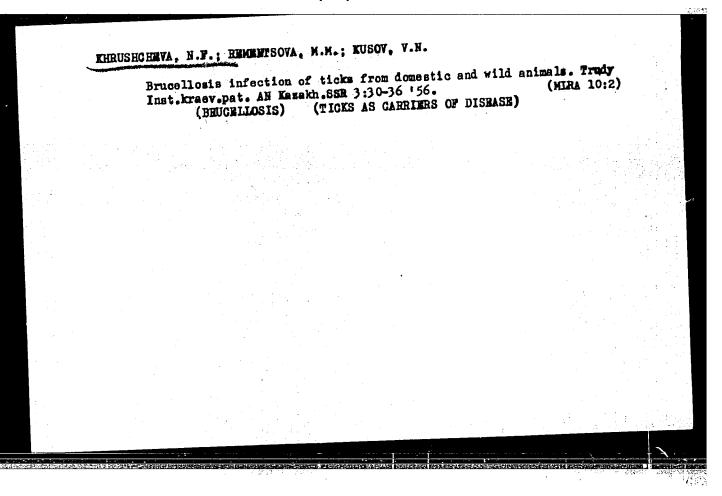


Congenital and infectious hepatitis in children. Vop.okh.mat.

i det. 4 no.3:83-85 Ky-Je '59.

l. Iz knfedry detskikh infektsiy (zav. - prof.S.D.Nosov)
Ivanovskogo meditsinskogo instituta (dir. - dotsent Ya.M.
Romanov).

(HEPATITIS, INFECTIOUS)



KHRUSHCHEVA, N.F., KHRUSHCHEVA, N.F. REMERTSOVA, M.M.; ZENKOVA, H.F.; KHRUSHCHEVA, N.F. Brucellosis infection transmitted by the tick ornithodoros lahorensis. Trudy Inst.kraev.pat. AN Eazakh.SSE 3:37-39 '56. (MERA 10:2) (BRUCELLOSIS) (TICKS AS CARRIERS OF DISRASE)

EMRUSHCHEWA, N.F.; REMENTSOVA, M.M.; ZLNKOVA, N.F.; KASYMOVA, Eh.A.;

BOODAHOVSKAYA, G.K.; BUKEYKHANOVA, Sh.Kh.; SHNYREYA, Ye.A.

Index of literature on brucellosis from 1952 through 1956.

Trudy Inst.kraev.pat.AN Kazakh.SSR 6:146-223 '58.

(MIRA 12:6)

(BIBLIOGRAPHY--BRUCKLLOSIS)